

Abstract of Disclosure

A multi-gradation display apparatus using a pulse width modulation (PWM) method. The display apparatus includes a plurality of channels; a plurality of input blocks for outputting a plurality of N-bit image code in response to a gray scale of an image, wherein N is a positive integer; a pulse width modulation generator for outputting first and second gray scale pulses, each having 2^N edges in response to the bit number of N-bit image code; and a plurality of count controllers, each selecting an edge of the first or second gray scale pulse in response to the N-bit image code to output a driving pulse having a pulse width from an initial point to the edge of the first or second gray scale pulse to the plurality of channels, wherein the second gray scale pulse is complementary with the first gray scale pulse.